

FLUID EJECTION DEVICE WITH STAGGERED INK DROP GENERATORS

ABSTRACT OF THE DISCLOSURE 09640286

5 The present invention includes as one embodiment a fluid ejection
device coupled to an ink supply and having multiple printing modes, including a
sufficient number of ink drop generators fluidically coupled to the ink supply
device and formed in the fluid ejection device and arranged along at least
three axes that are substantially parallel and spaced apart from each other to
provide printing resolution of at least 600 dots per inch with each printing
10 mode. The plurality of ink drop generators is arranged along four axes that
are substantially parallel and spaced transverse to each other and wherein
the plurality of ink drop generators arranged along the four axes are
staggered with respect to each of the axes to decrease an effective pitch of
the fluid ejection device to approximately one-fourth that of a plurality of ink
15 drop generators arranged along a single axis.